

# PEO EIS INDUSTRY DAY

*Transforming the Army's LandWarNet  
to an Enterprise Activity*

2010-03-30T12:30:00Z



**LTG Jeff Sorenson**

*Chief Information Officer/G-6, HQDA*

AMERICA'S ARMY: THE STRENGTH OF THE NATION  
ARMY STRONG





# Agenda



- ④ **Warfighter Needs**
- ④ **Transforming Using GNEC Strategy**
- ④ **Army Enterprise Architecture**
  - Architecture Components
  - Current Issues
- ④ **Future Enterprise Network**
  - CSA “Unity of Effort” Tasking
  - GNEC “Big 4”
- ④ **Current Issues**
  - ARFORCYBER
  - FY10 Budget
- ④ **Conclusions**









# Transformation Using GNEC Strategy



## CSA Memorandum: LandWarNet – Global Network Enterprise Construct Strategy Implementation, 2 March 2009



UNITED STATES ARMY  
THE CHIEF OF STAFF

MEMORANDUM FOR SEE DISTRIBUTION

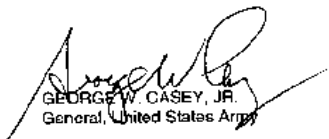
SUBJECT: LandWarNet – Global Network Enterprise Construct

1. We are transforming to become a fundamentally different Army expeditionary force capable of full-spectrum operations. To support this transformation, we must fundamentally change and adapt our institutions, including LandWarNet, to a centralized, more secure, operationalized, and sustainable network capable of supporting an expeditionary Army in this era of persistent conflict. To lay the foundation for further network expansion in the future, we will synchronize this transformation with other Army activities including the Army Force Generation model, Base Realignment and Closure, and Global Defense Posture Realignment. In FY09, we will set the foundation for the global network by achieving an initial operating capability of a network service center (NSC) in Europe; expanding these NSCs throughout all other Theaters by FY11.

2. We will use the Global Network Enterprise Construct (GNEC) as the network enterprise strategy. The CIO/G6 will establish new procedures to operationalize the network and improve the overall security of network services and capabilities. We will modify purchasing procedures to achieve better efficiencies in the procurement of our IT systems, and we will pursue joint interoperability with our other Service partners as we construct our network enterprise.

3. In the end, all Army generating force networks will be managed by a single command (Network Enterprise Technology Command (NETCOM)) organizing Army information to make it globally accessible, useful and secure for Soldiers deployed anywhere in the world.

4. The establishment of the Army global network enterprise requires dramatic changes to our current processes and network operations. Our combat-seasoned force is the best in the world, and transforming our network enterprise is central to a land force capable of conducting full-spectrum operations in the 21st Century. Your support is essential for our success.

  
GEORGE W. CASEY, JR.  
General, United States Army

**“Over the next three years, the Army will transform LandWarNet to a centralized, more secure, operationalized, and sustainable network capable of supporting an expeditionary Army in this era of persistent conflict.” – Chief of Staff, Army**

## A Soldier's Story



### **Ideal End-State**

Universal E-Mail Address

Universal File Storage

One Telephone Number

Standard Collaboration  
Tool Set

SOLDIERS \* FAMILIES \* ARMY CIVILIANS  
**ARMY STRONG™** 



# Transformation Outcome



**Operationalize LandWarNet to enable global warfighting capability**



**Dramatically improve Network Defense posture**



**Realize Economies and Efficiencies while improving Effectiveness**



**Enable Army Interoperability and Collaboration with mission partners**



# Network Service Center – Construct



## Fixed Regional Hub Node (FRHN)

- Provides Global Transport
- Intra-Theater Connectivity
- Up to 3 Div per Hub Node
- Connect to each other & DISN services in garrison

## Area Processing Center (APC)

- Data & Applications
- Consolidated IT hardware
- Projection & forward staging of info & services

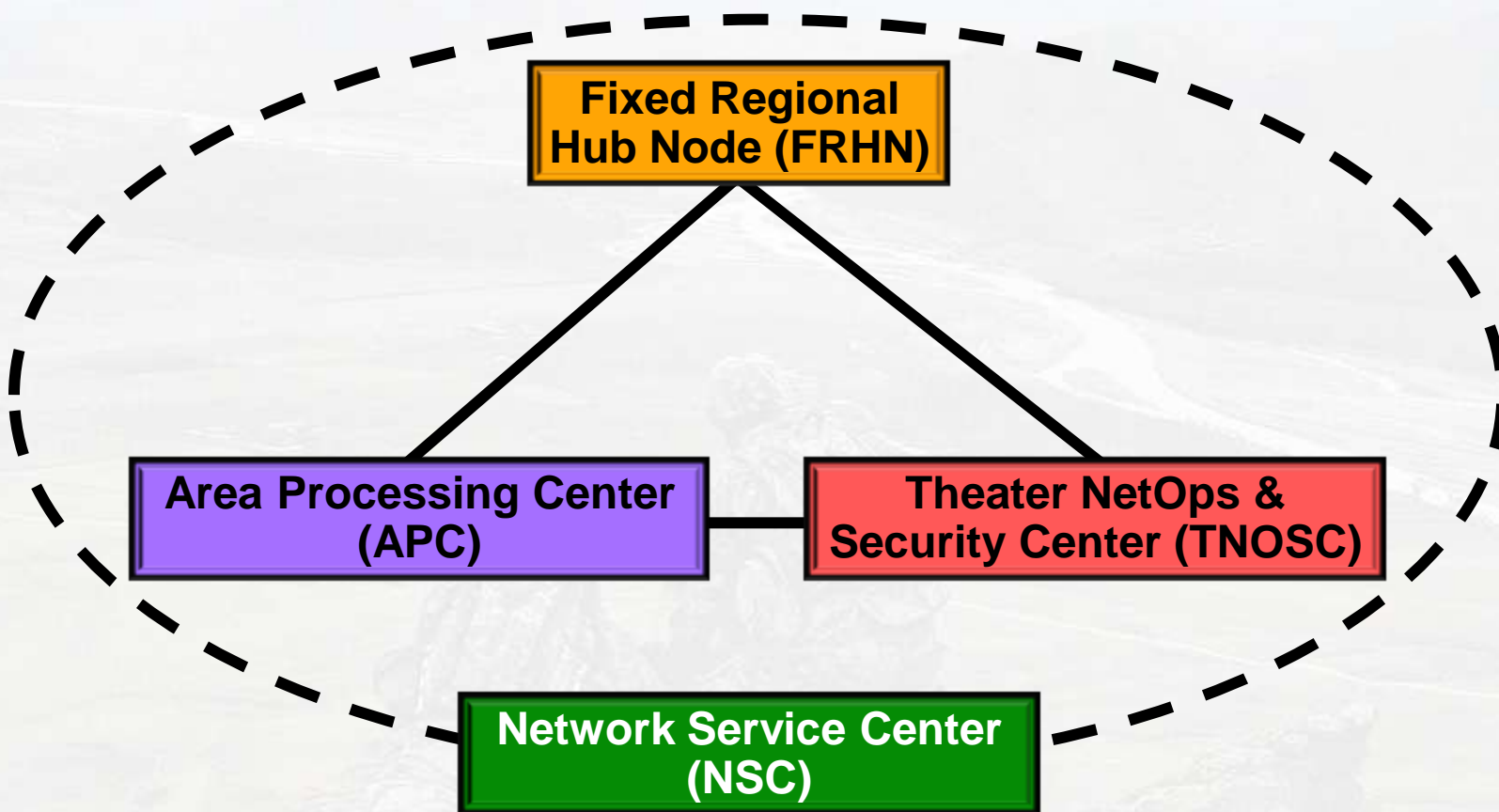
## Theater NetOps & Security Center (TNOSC)

- Technical oversight, enterprise, content, spectrum & Help Desk
- NetOps SA & optimize GIG avail
- Information Assurance & Security





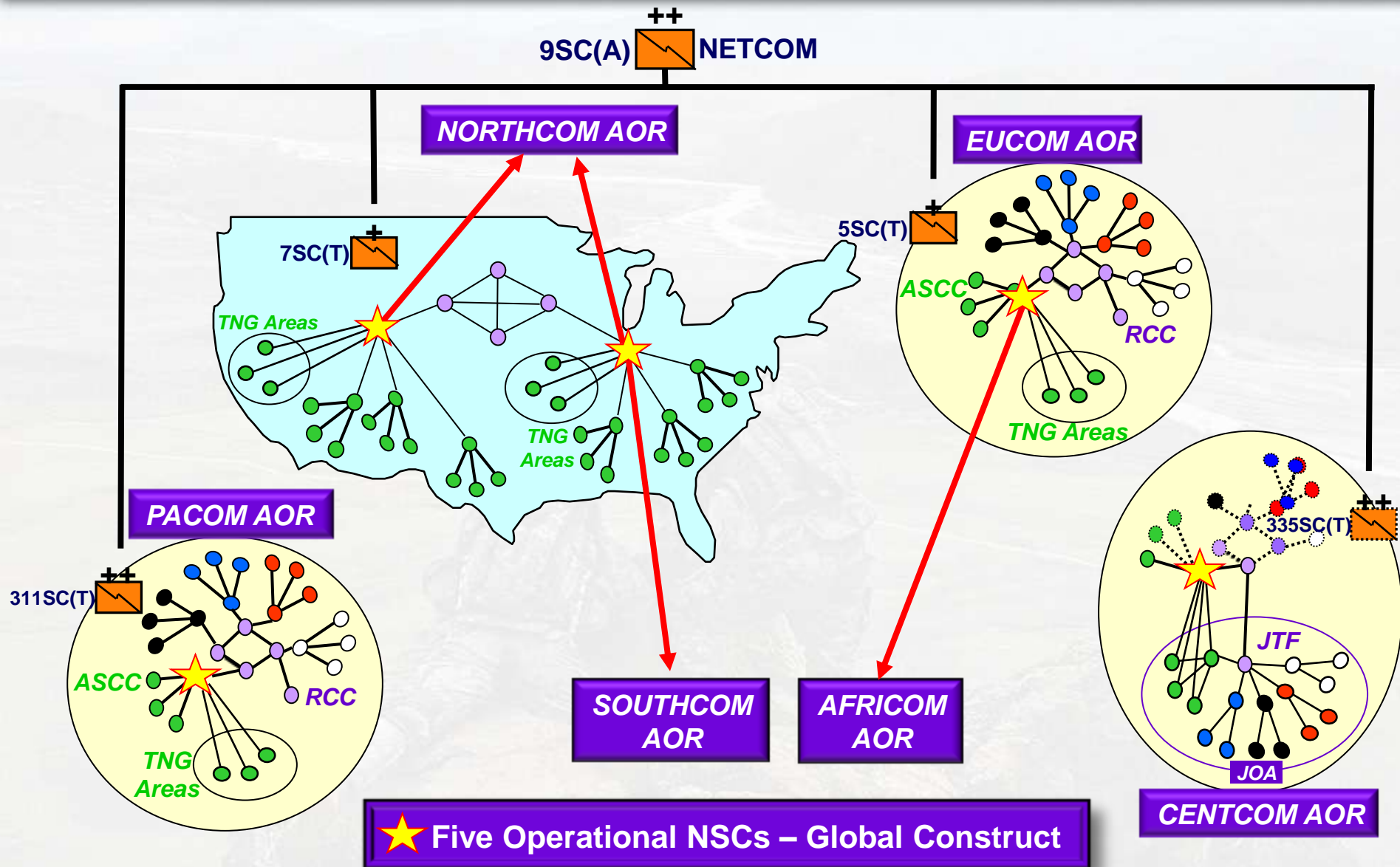
# Network Service Center – Construct



***The “Always On” Network***



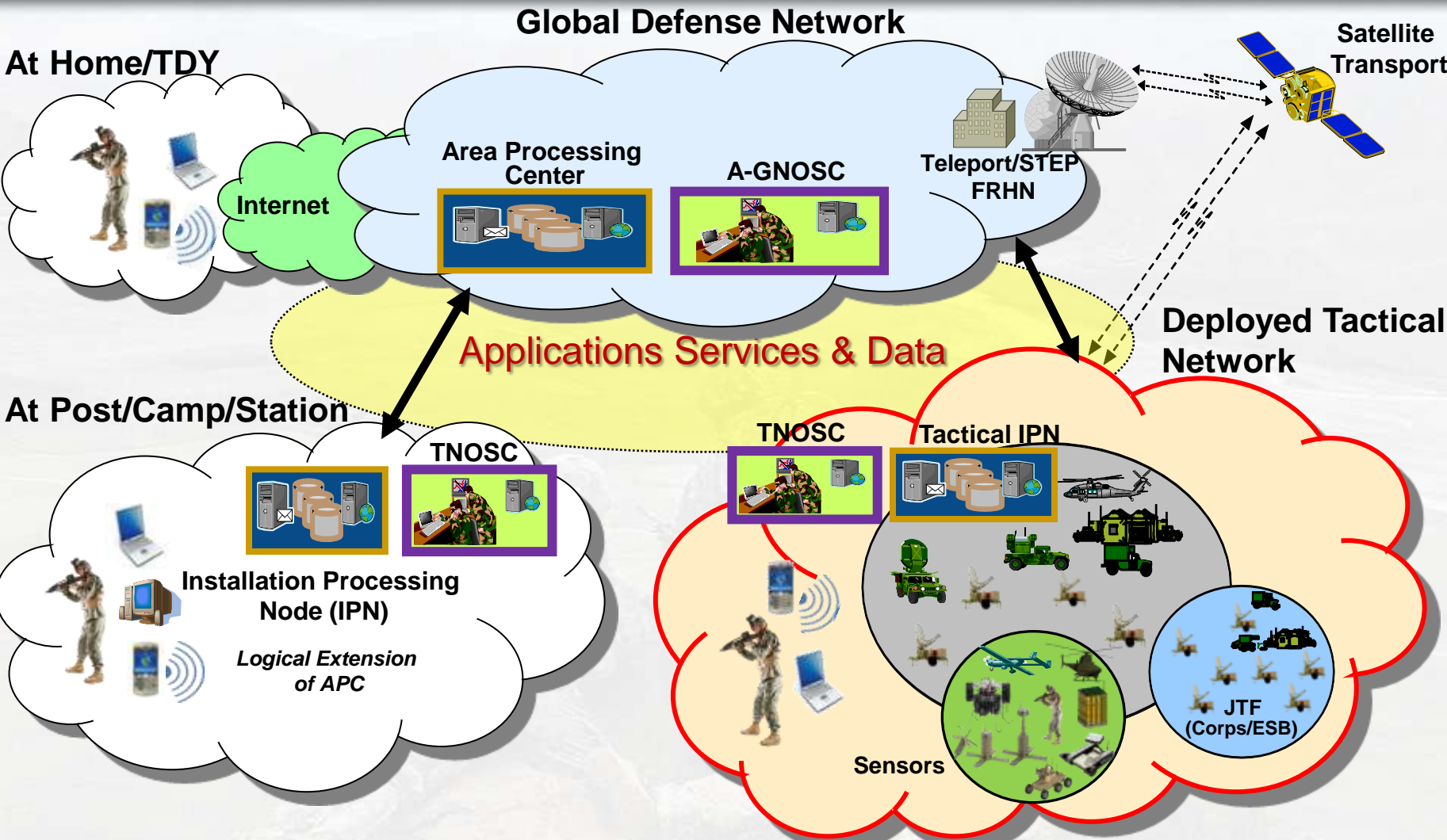
# Network Service Center – Construct







# Army Enterprise Network



**Reset (Phases 0-1) ↔ Transition ↔ Deploy (Phases 2-5)**

***Always Accessible by the Soldier***



# Current Battle Command Environment



## Current



- Hardware Redundancy
- “Bolt-on” Electronics Systems
- Complex Cabling
- Large System Reset & Lifecycle Costs



- Software Redundancy
- “Work-around” Integration
- Complex Knowledge Management
- Large Training & Upgrade Costs





# Current Battle Command Environment



## Current



## Future



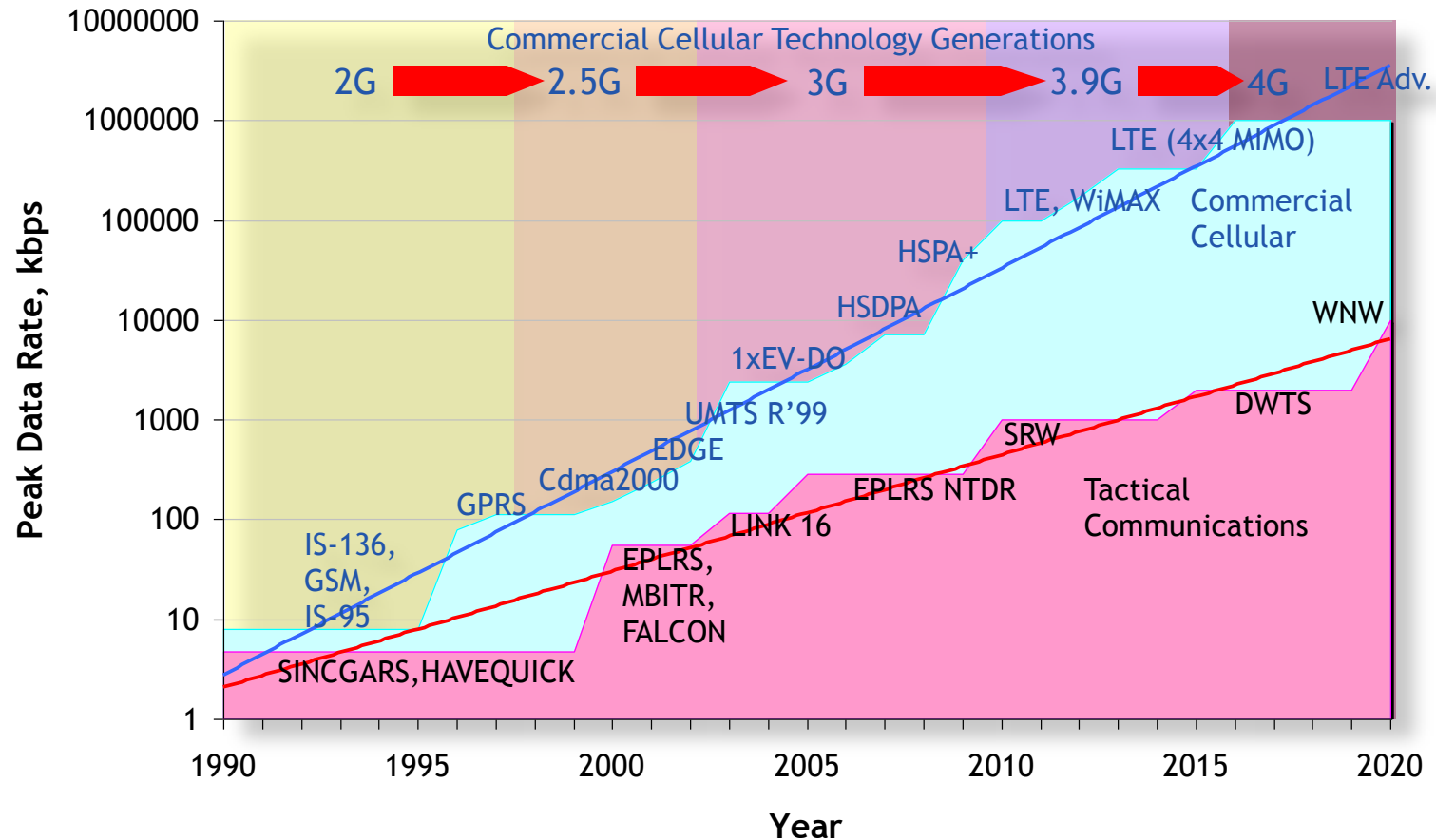
Common Network Integration Kits (NIK)



Common Hardware with Integrated Apps



# Commercial Cellular & Tactical Communications Data Rate Evolution



***The Commercial Marketplace is Driving Innovation at an Accelerated Pace vs. the DoD market – DoD should Leverage this Innovation More Effectively***



# • UNITY OF EFFORT

① "BIG 5" OF 21st Cent

② WHAT TRYING TO ACCOMP W/  
NETWORK? CONCEPT OF BC/EMPOWER  
LEADS

• LOWER EXPECTATIONS

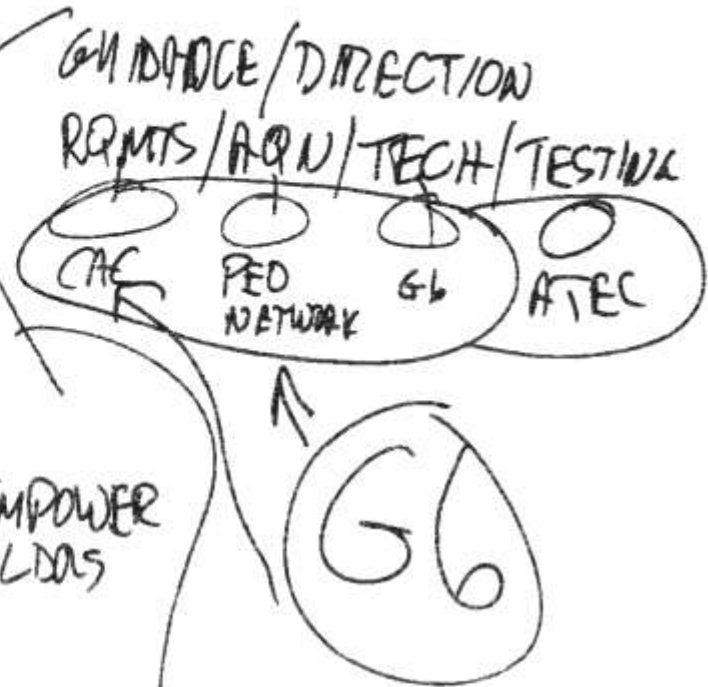
• "TO CREATE CONTEXT"

• SIMULATIONS FOR TESTING / NETWORK + BC APPS

• FLEXIBLE / ITERATIVE

• BASELINE ASSESSMENT

• CYBER





# Transforming Our Army & Our Signal Regiment

## Supporting Efforts to Attack the Processes that Slow C4/IT Innovation







# Enterprise E-Mail



## ➤ Enterprise E-Mail contract status:

- Draft RFI: 5 March 2010
- Industry Day: 24 March 2010
- Final RFP: 3<sup>rd</sup> QTR / FY10
- Contract Award: 4<sup>th</sup> QTR / FY10

## ➤ Spiral 1 Priority will be BRAC Users

- Focus on AMC, FORSCOM & TRANSCOM HQs
- Expand to Ft Riley, Ft Huachuca & Redstone Arsenal
- Potentially 251K Users

## ➤ Will evaluate performance and potential, then move to Spiral 2 for remainder of Army and then DoD



# NSC/APC Strategy



## ➤ NSC/APC Spiral 1 contract status:

- RFP Prep: 2<sup>nd</sup>-3<sup>rd</sup> QTR / FY10
- Industry Day: 3<sup>rd</sup> QTR / FY10
- SSEB: 3<sup>rd</sup> QTR / FY10
- Contract Award: End 3<sup>rd</sup> QTR / FY10

## ➤ Outcomes of the NSC/APC strategy include:

- Migration & Hosting Services for Applications & Data
- Infrastructure as a Service
- Containerized Services
- Disaster Recovery & Business Continuity Services





# NetOps '6+1' Toolset



## ➤ Active Directory (AD)

- Single Forest within CONUS – 12 Feb 2010
- Global AD Forest, July 2012

## ➤ Remedy ITSM/Enterprise Service Desk (ESD)

- Tobyhanna Army Depot ESD IOC – 29 Jan 2010
- Toll Free number – available within 90 days

## ➤ Systems Center Configuration Manager (SCCM)

- NIPRNet CONUS Automated Reporting, TNOSC view NEC Status & Inventory
- Federated Reporting Capability, SMS Legacy/CA – 31 Mar 2010
- IT Asset Management (ITAM) Automated Aggregation OPOD – 31 Mar 2010

## ➤ Host Based Security System (HBSS)

- ABCS Synchronization Test – 2 Feb 2010
- Deployment Status, 15 Jan 2010

***Allows Retirement of 31 Tools & Global Tool Standardization***



# Proving the Concept: OPVAL II



## NSC OPVAL I

- Demonstrated – Early Collaboration, Single Identity & Fight Upon Arrival
- Validated processes & procedures
- Built key partnerships

## NSC OPVAL II

- Single Global Identity
- Universal Collaboration
- Fight Upon Arrival
- Enhanced Security – Improved NetOps

## ***The Warfighter Will:***

- Have a Single Tactical Identity for communication and access to resources
- Retain the ability to collaborate with Higher, Adjacent and Subordinate Units across Theaters throughout all phases of operations
- Arrive in Austere Operational Area Ready to Fight Upon Arrival
- Conduct realistic Training using NSC Capabilities

***Deploy a BCT-sized unit leveraging the range of global network enterprise capabilities through all phases of its deployment in FY11***

***Deploy all BCT-sized units relying on the range of global network enterprise capabilities through all operational phases NLT FY12***

– GEN George Casey  
Chief of Staff, Army





# Transforming Our Army & Our Signal Regiment

## Supporting Efforts to Attack the Processes that Slow C4/IT Innovation

CSA Tasker – Unify the Network

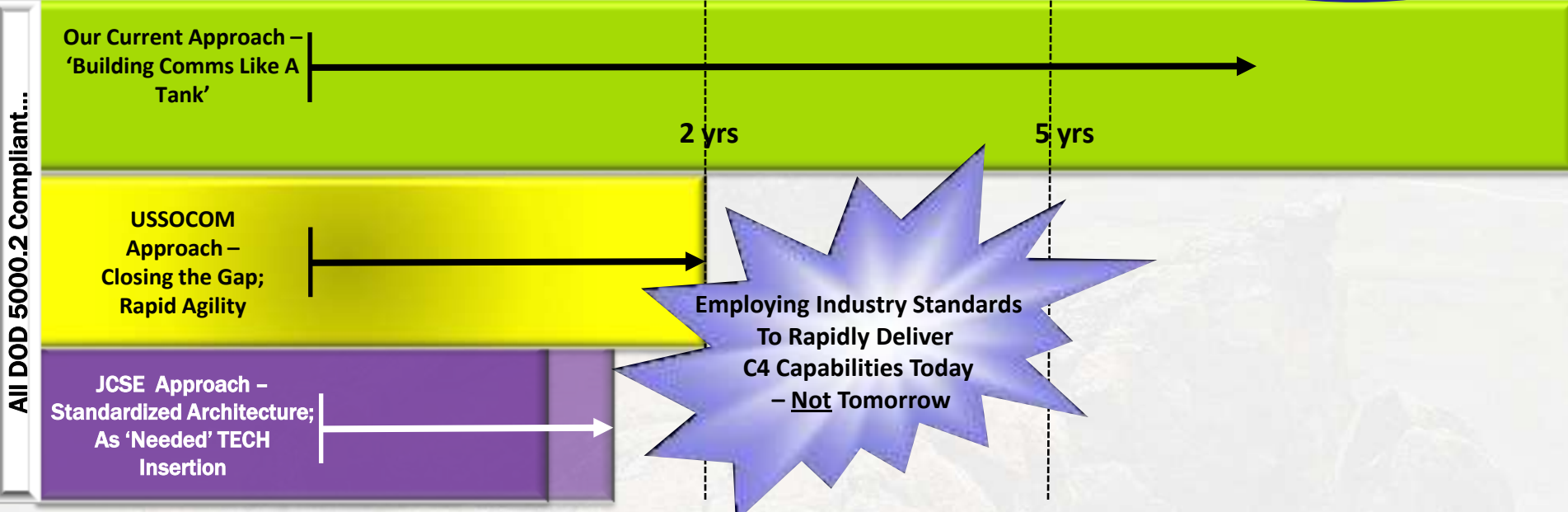
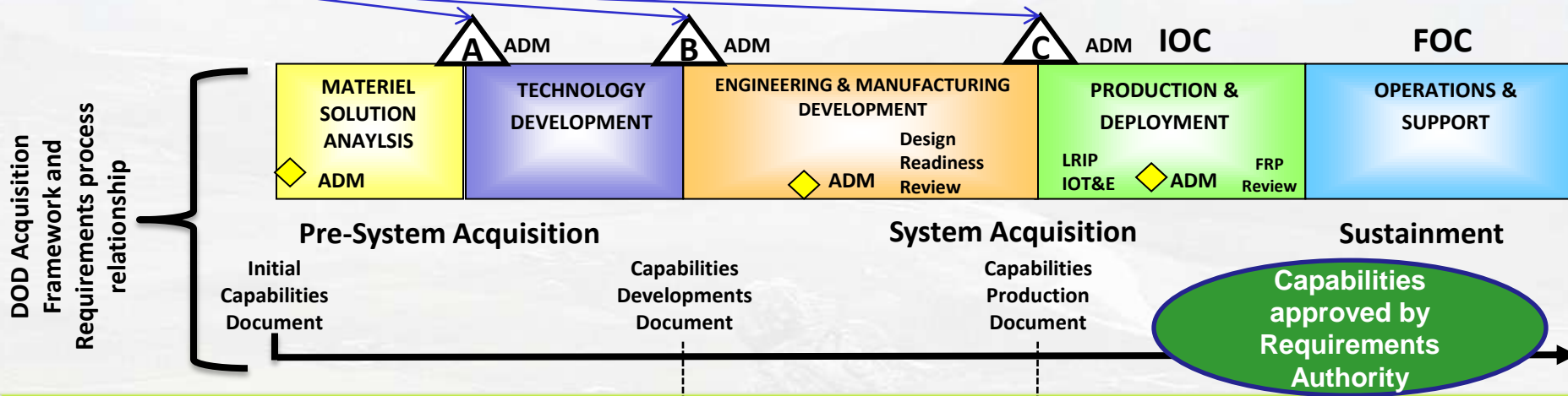




# Evaluating Other Processes to Close the Capability 'Gap'

## Leveraging Industry Standards...Remaining DOD 5000.2 Compliant

JCIDS: User needs & Technology Opportunities



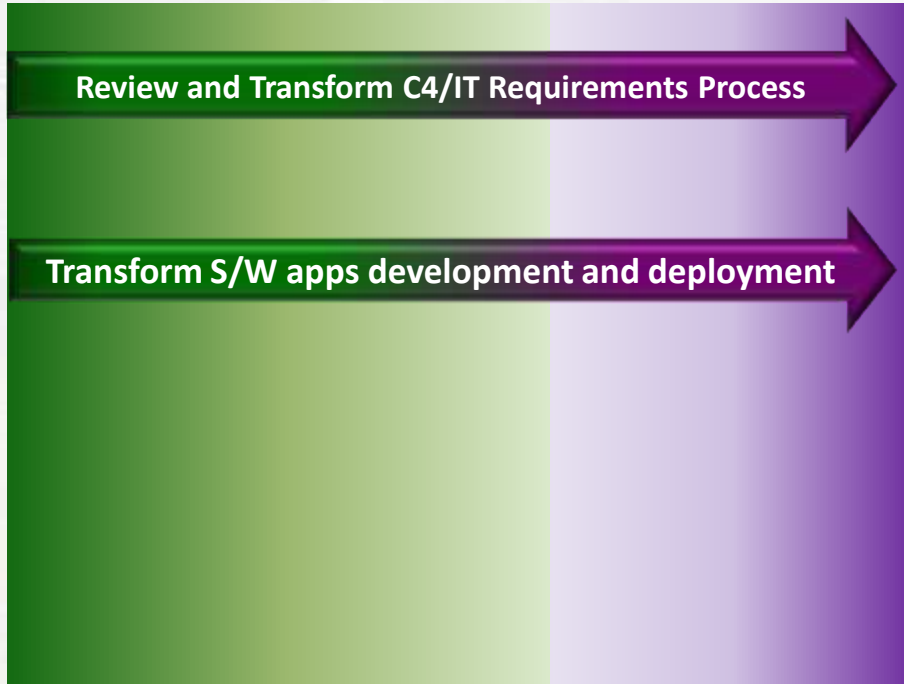




# Transforming Our Army & Our Signal Regiment

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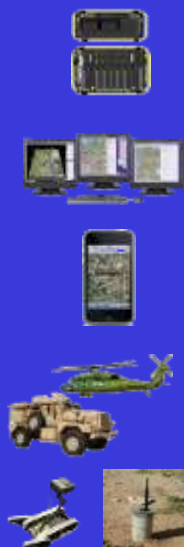




# End User Environment & Process

## End User Environment

### Standardize



| LINUX | WIN |
|-------|-----|
| ✓     | ✓   |
|       | ✓   |
| ✓     |     |
| ✓     |     |
| ✓     |     |

OS  
Security  
Development  
...

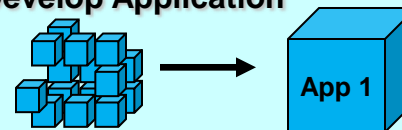
## Process

### Define Business Process

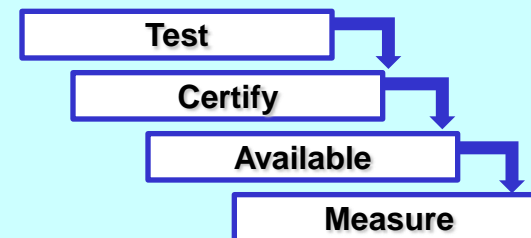


### Select Environment

### Develop Application



### Submit to App Store



Pilots: PEO IEWS – C&A; PEO C3T – BC Web SDK; TRADOC & PEO EIS – Mobile Apps, JPM Guardian & ADCF-E2E Process; Apps 4 the Army (non-POR)





# Software/Apps Development



- Web Application Development Challenge
- Announced 1 March 2010
- Employee Cash Awards up to \$30,000
- E-mail Questions to:  
[CIO/G6ArmyApps@conus.army.mil](mailto:CIO/G6ArmyApps@conus.army.mil)
- Details, info & registration on AKO at:  
<http://www.army.mil/cioq6/armyapps>

- AUSA Torchbearer brochure available on AUSA site at:

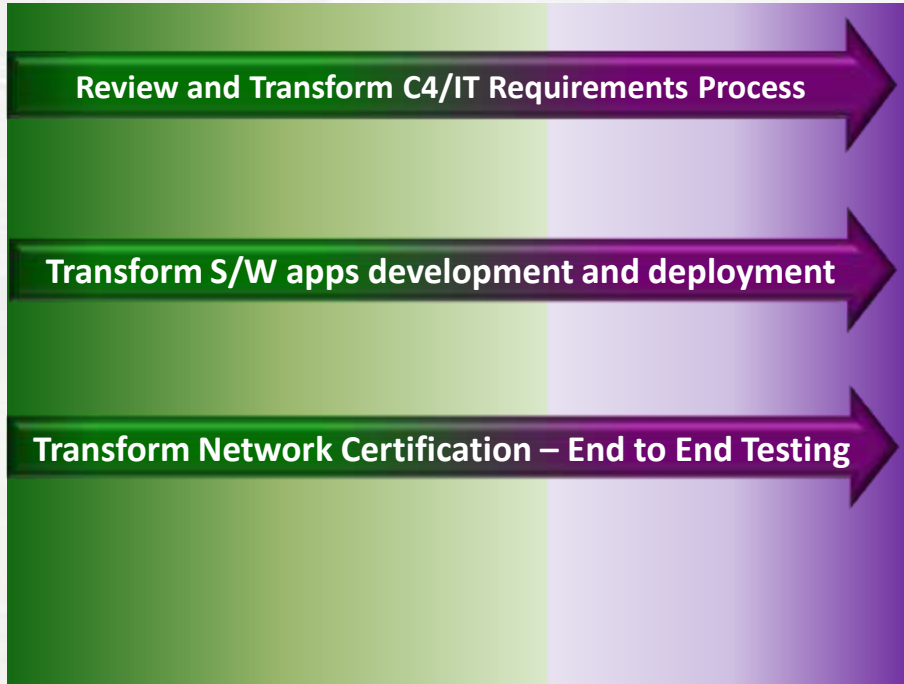
<http://www.ausa.org/publications/ilw/pages/default.aspx>



# Transforming Our Army & Our Signal Regiment

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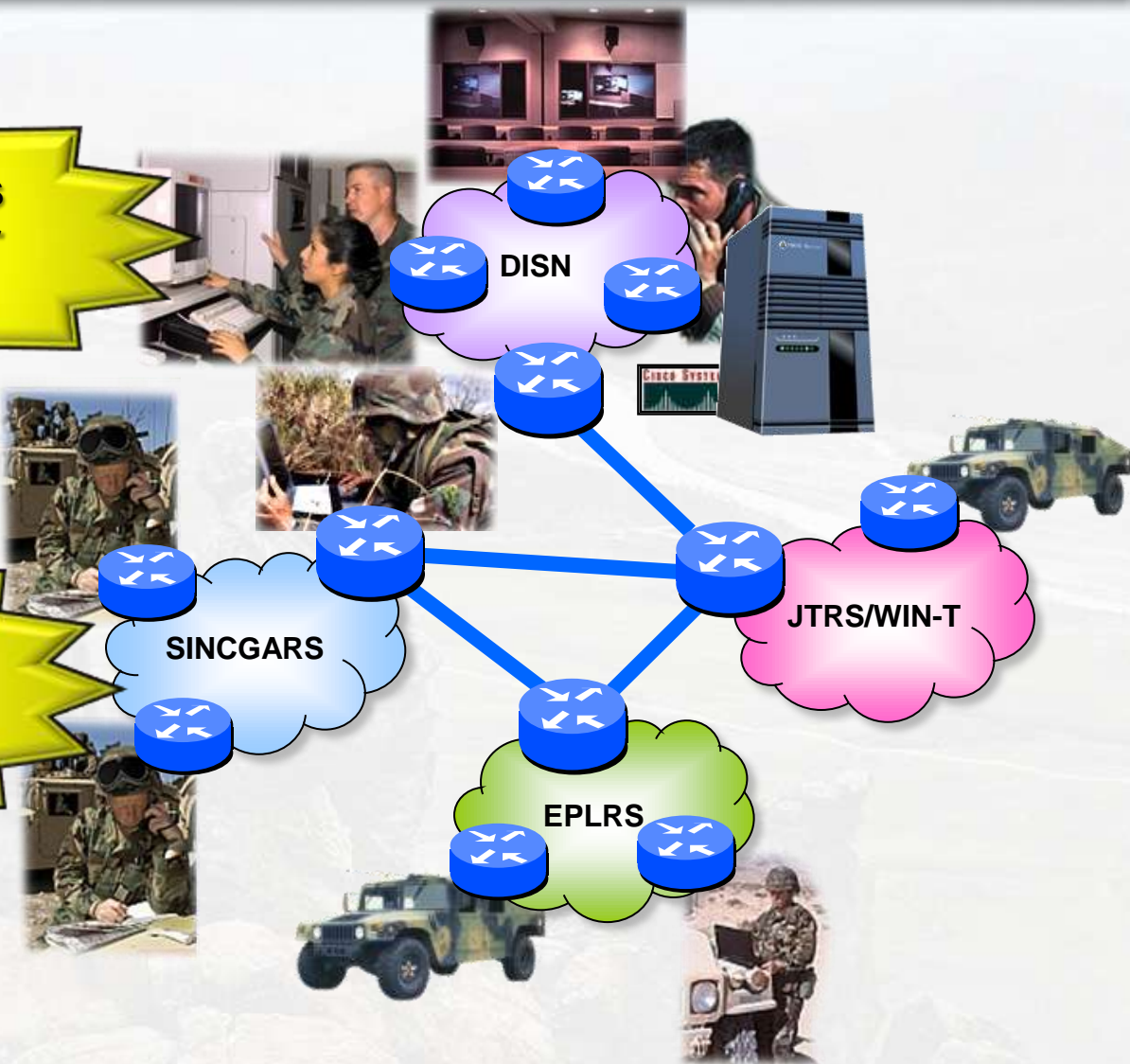
# Our Approach

## Why EoIP Networking?



**IP switches/routers  
connect dissimilar  
networks**

**Common standards  
& interfaces ensure  
end-to-end  
interoperability**



**EoIP networking provides a seamless convergence layer for all networks....  
... and applications, sensors, Fire & Maneuver**

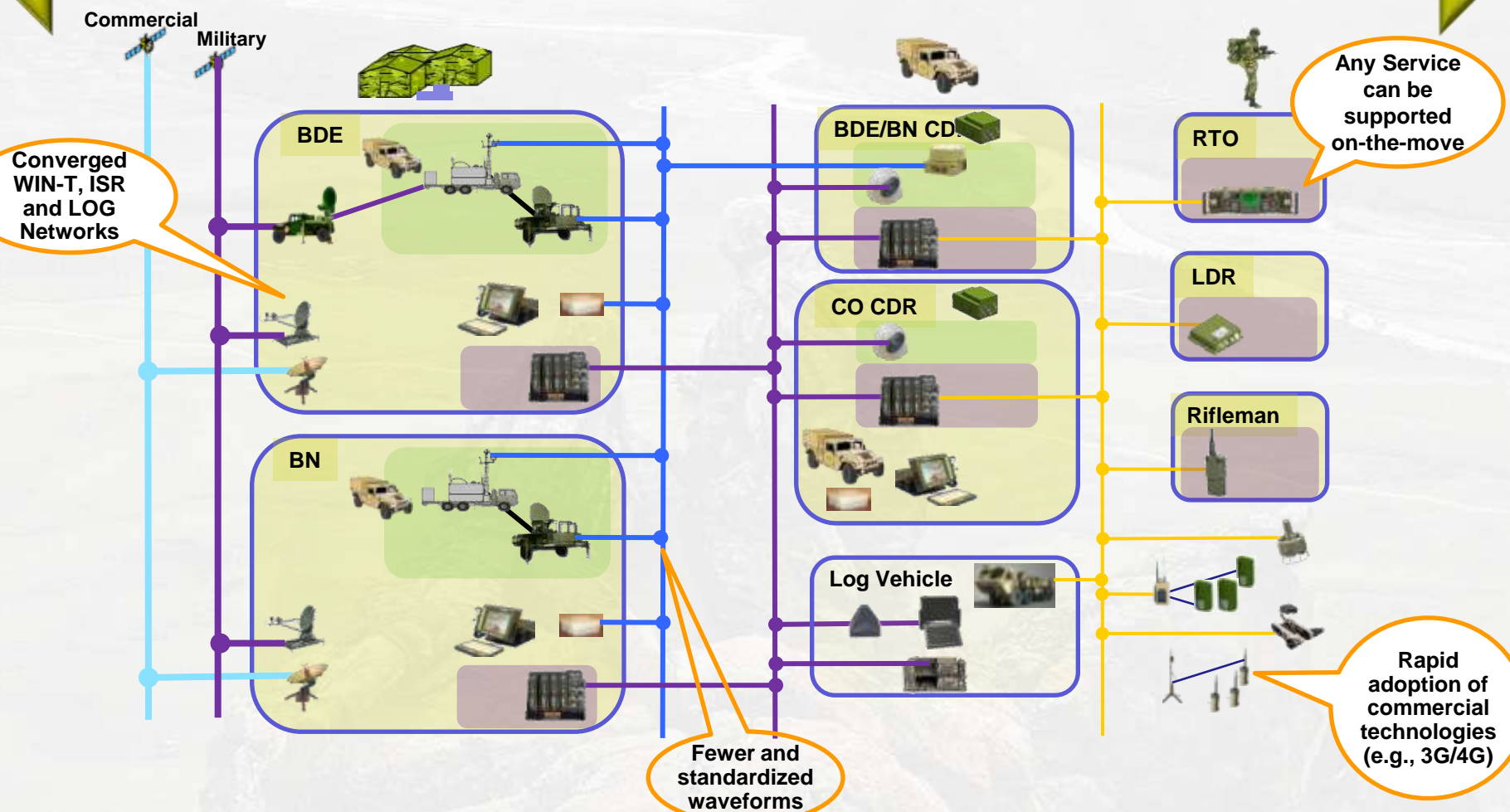




# Example 'To-Be' Network Architecture Eliminating the Stovepipes



*All systems riding a common, interoperable EoIP Backbone  
Establishing a 'plug and play' environment*





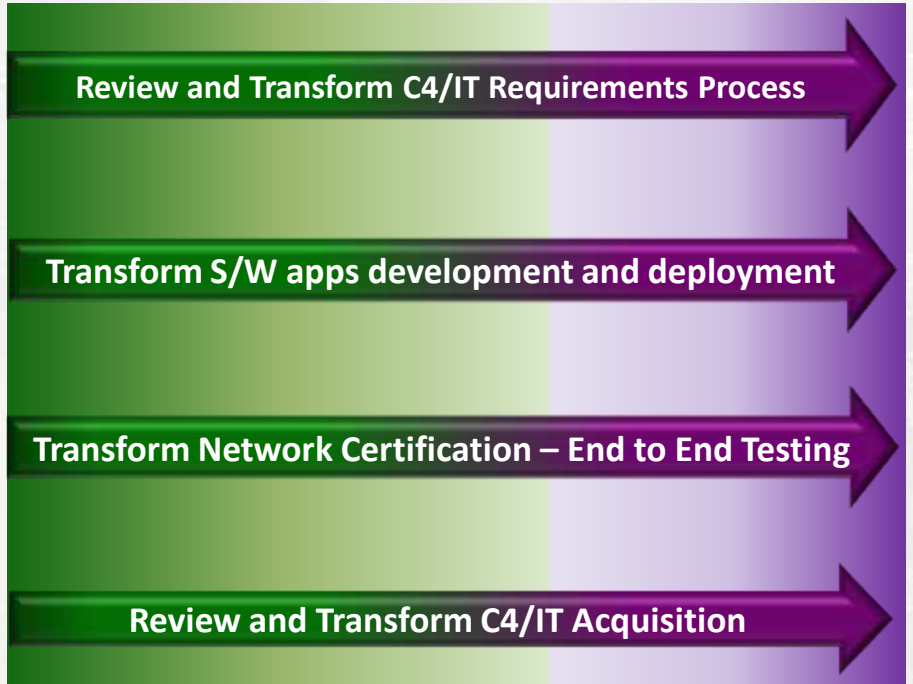
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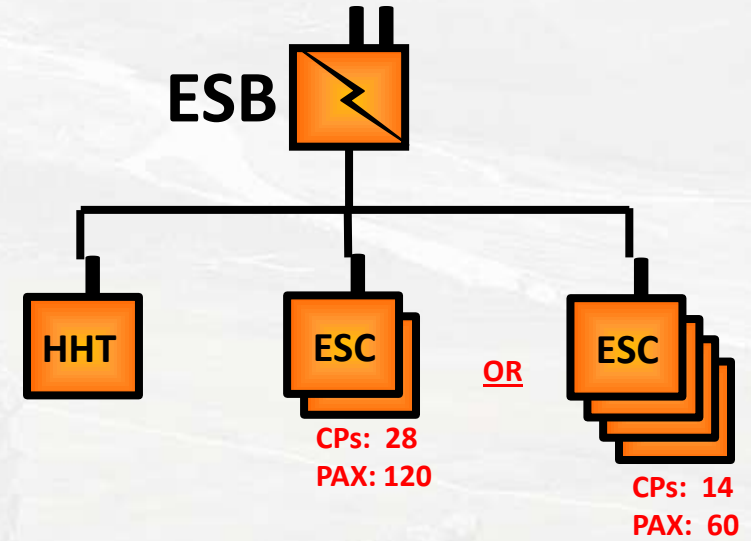
### VCSA Memo

Establish Governance Over The Deployment of the Network



'End State' Architecture to Guide Investment

Our End State  
Influence POM 12-17....



...and Re-Balance Signal Forces thru the FAA



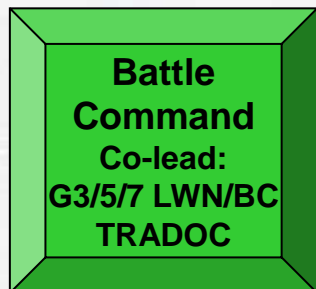
# FY10 – IT Budget



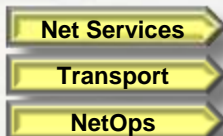
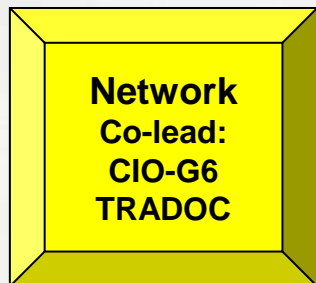
## Segments

## Sub-Segments C4/IT Resources

## Major Programs



- Army Battle Command Systems
- Global Cmd & Control System-Army
- Maneuver Control System
- Global Positioning System
- Blue Force Tracker
- Forward Area Air Defense C2 System
- Global Combat Services Spt-Army
- Advance FA Tactical Data System



- Warfighter Info Network – Tactical
- Joint Tactical Radio System
- Installation Information Improvement Modernization Program
- Enterprise Satellite Terminals
- Long Haul Communications
- Information Assurance Programs
- Army/Defense Knowledge Online



- Single Army Logistics Enterprise
- General Fund Enterprise Business System
- Defense Integrated Human Resources System
- Army Recruiting Systems
- Medical Communications for Combat Casualty Care





# Conclusions



## Global Network Enterprise Strategy

*...transforming to an Expeditionary Army*



## Global Network Enterprise Construct

*...Operationalize, Defend, Efficiencies & Effectiveness, Joint*

## Unity of Effort

*...transforming Our Army & the Signal Regiment*

## Shared Situational Awareness

*...Bottom Line for the Joint Warfighter*





# Service-Disabled Vet-Owned Small Business (SDVOSB) Opportunities



- Veterans Benefits Act of 2003 & Executive Order 13360 sets goal of 3% for SDVOSB Contracts
- Over 12,000 SDVOSB firms registered in Central Contractor Registration (CCR) Database
- Center for Veterans Enterprise maintain VetBiz Vendor Info Pages (VIP) Database
- Army Small Business Website useful resource for SDVOSB  
<http://www.sellingtoarmy.info/User/ShowPage.aspx?PageID=70>
- Government Services Agencies Website useful resource as well  
<http://www.gsa.gov/portal>







# Celebrating 150 Years of Signal Corps Support to the Warfighter



## ARMY STRONG!





# QUESTIONS & THOUGHTS



**LTG Jeff Sorenson**

*Chief Information Officer/G-6*

**AMERICA'S ARMY: THE STRENGTH OF THE NATION  
ARMY STRONG**